AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims

1. (Previously Presented) A method for enabling establishment of a connection between a node of a private domain and a node of a public domain through an intermediate communication gateway having a pool of public-domain gateway addresses for public-domain representation of private-domain nodes, said method comprising the steps of:

centrally allocating by the intermediate communication gateway, in response to a configuration request initiated from the private-domain node, a public-domain gateway address from said pool of gateway addresses and a private-domain port number for the private-domain node;

wherein said step of centrally allocating comprises the step of identifying, based on predetermined connection information derivable from said configuration request, a public-domain gateway address and a private-domain node port number that in combination with said predetermined connection information define a public-domain gateway state representation that has no counterpart in any existing gateway connection state:

initiating establishment of said connection by the intermediate communication gateway at least partly based on the allocated public-domain gateway address and private-domain node port number; and

transmitting the allocated public-domain gateway address and private-domain node port number from the intermediate communication gateway to the requesting private-domain node in a configuration reply.

- 2. (Previously Presented) The method according to claim 1, wherein said predetermined connection information includes at least one of public-domain node address information and public-domain node port information.
- 3. (Previously Presented) The method according to claim1, wherein a gateway connection state is established in said gateway based on said public-domain gateway state representation and a representation of a private-domain routing path between said gateway and said private-domain node.
- 4. (Previously Presented) The method according to claim 1, wherein the allocated public-domain gateway address and private-domain node port number are represented by an allocated socket domain address and a source port number, and the predetermined connection information includes a destination domain address and a destination port number, and the public-domain gateway state representation is defined by a unique set of socket parameters including the allocated socket domain address and source port number, the destination domain address and the destination port number.
- 5. (Original) The method according to claim1, wherein said configuration reply is a DNS (Domain Name Server) reply.
- 6. (Previously Presented) The method according to claim 5, wherein said allocated public-domain gateway address and private-domain node port number are conveyed in a dedicated DNS record in said DNS reply.
- 7. (Previously Presented) The method according to claim 1, further comprising the step of the private-domain node configuring a communication interface according to said allocated public-domain gateway address and private-domain node port number.

- 8. (Previously Presented) The method according to claim 1, further comprising the step of establishing a private-domain routing path between said gateway and said private-domain node.
- 9. (Previously Presented) A system for enabling establishment of a connection between a node of a private domain and a node of a public domain through an intermediate communication gateway having a pool of public-domain gateway addresses for public-domain representation of private-domain nodes, said system comprising:

means within the intermediate communication gateway for centrally allocating, in response to a configuration request initiated from the private-domain node, a public-domain gateway address from said pool of gateway addresses and a private-domain node port number for the private-domain node;

wherein said means for centrally allocating comprises means for identifying, based on predetermined connection information derivable from said configuration request, a public-domain gateway address and a private-domain node port number that in combination with said predetermined connection information define a public-domain gateway state representation that has no counterpart in any existing gateway connection state:

means within the intermediate communication gateway for initiating establishment of said connection at least partly based on the allocated public-domain gateway address and private domain node port number; and

means for transmitting the allocated public-domain gateway address and private-domain node port number from the intermediate communication gateway to the requesting private-domain node in a configuration reply.

10. (Previously Presented) The system according to claim 9, wherein said predetermined connection information includes at least one of public-domain node address information and public-domain node port information.

- 11. (Previously Presented) The system according to claim 9, wherein a gateway connection state is established in said gateway based on said public-domain gateway state representation and a representation of a private-domain routing path between said gateway and said private-domain node.
- 12. (Previously Presented) The system according to claim 9, wherein the allocated public-domain gateway address and private-domain node port number are represented by an allocated socket domain address and a source port number, and the predetermined connection information includes a destination domain address and a destination port number, and the public-domain gateway state representation is defined by a unique set of socket parameters including the allocated socket domain address and source port number, the destination domain address and the destination port number.
- 13. (Original) The system according to claim 9, wherein said configuration reply is a DNS (Domain Name Server) reply.
- 14. (Previously Presented) The system according to claim 13, wherein said allocated public-domain gateway address and private-domain node port number are conveyed in a dedicated DNS record in said DNS reply.
- 15. (Previously Presented) The system according to claim 9, further comprising means for establishing a private-domain routing path between said gateway and said private-domain node.
- 16. (Previously Presented) A gateway resource manager for a communication gateway, said communication gateway having a pool of public-domain gateway addresses for public-domain representation of private-domain nodes, said gateway resource manager comprising:

means for centrally allocating, in response to a configuration request initiated from one of the private-domain nodes, a public-domain gateway address from said pool

of gateway addresses and a private-domain node port number to be used in establishing a gateway connection state for a flow between the private-domain node and a public-domain node;

wherein said allocating means comprises means for identifying, based on predetermined connection information, a public-domain gateway address and a private-domain node port number that in combination with said predetermined connection information define a public-domain gateway state representation that has no counterpart in any existing gateway connection state;

means for initiating establishment of said gateway connection state at least partly based on the allocated public-domain gateway address and private domain node port number; and

means for transmitting the allocated public-domain gateway address and private-domain node port number to said private-domain node.

- 17. (Previously Presented) The gateway resource manager according to claim 16, wherein said predetermined connection information includes at least one of public-domain node address information and public-domain node port information.
- 18. (Previously Presented) The gateway resource manager according to claim 16, wherein the allocated public-domain gateway address and private-domain node port number are represented by an allocated socket domain address and a source port number, and the predetermined connection information includes a destination domain address and a destination port number, and the public-domain gateway state representation is defined by a unique set of socket parameters including the allocated socket domain address and source port number, the destination domain address and the destination port number.
- 19. (Previously Presented) The gateway resource manager according to claim 16, wherein said means for initiating establishment of said gateway connection state comprises means for requesting that said gateway establishes a gateway connection state based on the public-domain gateway state representation and a

representation of a private-domain routing path between said gateway and said private-domain node.

- 20. (Previously Presented) The gateway resource manager according to claim 16, wherein said allocating means performs allocation in response to a configuration request initiated from the private-domain node, and said transmitting means transmits the allocated public-domain gateway address and private-domain node port number to the private-domain node in a configuration reply.
- 21. (Original) The gateway resource manager according to claim 20, wherein said configuration reply is a DNS (Domain Name Server) reply.
- 22. (Previously Presented) The gateway resource manager according to claim 21, wherein said allocated public-domain gateway address and private-domain node port number are conveyed in a dedicated DNS record in said DNS reply.
- 23. (Previously Presented) A method of configuring a private-domain communication node for communication with a public-domain communication node via a communication gateway having a pool of public-domain gateway addresses for public-domain representation of private-domain nodes, said method comprising the steps of:

centrally allocating by the intermediate communication gateway, a public-domain gateway address from said pool of gateway addresses and a private-domain node port number in response to a configuration request initiated from the private-domain node;

wherein said step of centrally allocating comprises the step of identifying, based on predetermined connection information, a public-domain gateway address and a private-domain node port number that in combination with said predetermined connection information define a public-domain gateway state representation that has no counterpart in any existing gateway connection state;

transmitting the allocated public-domain gateway address and private-domain node port number from the intermediate communication gateway to the private-domain node; and

configuring the private-domain communication node according to the allocated public-domain gateway address and private-domain node port number.

24. (Previously Presented) A private-domain communication terminal arranged for communication with any of a number of public-domain hosts via a communication gateway having a pool of public-domain gateway addresses for enabling public-domain representation of inside-realm communication terminals, said communication terminal comprising:

means for requesting from the communication gateway, in a modified DNS (Domain Name Server) query, central configuration information for communication with a selected one of the public-domain hosts, wherein the central configuration information is centrally allocated by the communication gateway;

means for receiving a DNS configuration reply including a centrally allocated public-domain gateway address and a centrally allocated private-domain terminal port number, said centrally allocated public-domain gateway address and said centrally allocated private-domain terminal port number being arranged in a dedicated DNS record in said configuration reply; and

means for configuring a communication interface according to the public-domain gateway address and said private-domain terminal port number.